Least Co.	mt(L·C)=0-1m			nier Callipe
	on = Nill	10	Three	Readings
Teso Coss	ection = Nill	•		U
No∙of	Mean Scale	10.0¢	X=nxL-C	Diameter
002.	(M)	division (n)	(cm)	Y=M+X
1	0.6	5	0.05	0.65
2	05	4	0.04	0.54
3	0.6	3	0.03	0.63
1000	= D/2 = 0.61, (A) - Th <sup>2</sup> = 3.14(0.	/2 =0·30.4 305) <sup>2</sup> =0·	********	
			GSF Acc	
	count = (2		0321-94	17421
	user + Tuso (		<b>②</b>	
	ter + Mean		Prepared By	r:
	a = (4)		SST (Sci)	T Sonall

	<del>×6.</del>		Three Roads	
		m = 0.01cm	Trace Renal	981
200 Es	noc= nice			
TEND CON	section = Nill		C - 0 - 1 - C - 1	- h
W. O.	Main State Reading	1 AGMWIGH	C = BxL·C	D=A+C
	(A) (un)	Keeding (B)	- W,,	(cun)
1	2.5	2	0.02	2.52
2	2.5	3	0.03	2.53
3	2.6	3	0-03	2.63
1	Diameters 0.5	5	0.05	0.55
2	0.6	4	0.04	0.64
3	0.5	-	0.05	0.55
Mean. Mean			1+055 = 0:581	
Mean	Diameter = D	= 0·55 +0·6·	1+ <u>0-55 = 0.58</u> 0	
Mean	D'ameter = D D/2 = 0.58/	= 0.55 +0.60 3 2 = 0.29cm	1+055 = 0:580	um -
Mean	D'ameter = D D/2 = 0.58/	= 0.55 +0.60 3 2 = 0.29cm	1+055 = 0.580 0.000	3.
Mean L= V=	Diameter = D  D/2 = 0.58/  X 828 = (3.14	= 0·55 +0·6 3 2 = 0·29cm	1+0-55 = 0.580 56) =0-676 cm	3. emy
Mean L= V=	D'ameter = D D/2 = 0.58/	= 0·55 +0·6 3 2 = 0·29cm	1+055 = 0.580 0.000	3. emy an Tufail
Mean &= V=	Diameter = D  D/2 = 0.58/  T 62 = (3.14)	= 0·55 +0·6 3 /2 = 0·29cm ) (0·29) (2·	1+0-55 = 0.58 56) =0-676 cm GSF Acad Mich Imp	3. emy an Tufail
Mean  1 =  V =  Masks 1 - Leav	Diameter = D  D/2 = 0.58/  T 52 = (3.14)  distribution  t Count = 2	= 0.55 +0.6. 2 = 0.29cm ) (0.29) (2.	1+0-55 = 0.580 56) =0.676 cm GSF Acad Mian Imre 0321-947-	3. emy an Tufail
Mean  L=  V=  Masks  1- Leav  2- Zeko	Diameter = D  D/2 = 0.58/  T 52 = (3.14)  distribution  t Count = 2  esser, Texo Co	= 0.55 +0.6. 2 = 0.29cm ) (0.29) (2.	1+0-55 = 0.580 56) =0.676 cm GSF Acad Mian Imre 0321-947-	3. emy an Tufail
Mean  1 =  V =  Masks  1 - Leav  2 - Zeso  3 · Leng  4 · Niem	Diameter = D  D/2 = 0.58/  T 52 = (3.14)  distribution  t Count = 2  esser , Zeso Co  th + Mean	= 0.55 +0.60 2 = 0.29cm ) (0.29) (2. m: mechion = 0	1+0-55 = 0.580 56) =0.676 cm GSF Acad Mian Imre 0321-947-	3. emy an Tufail
Mean  1 =  V =  Masks  1 - Leav  2 - Zeso  3 · Leng  4 · Niem	Diameter = D  D/2 = 0.58/  T 52 = (3.14)  distribution  t Count = 2  esser , Zeso Co  th + Mean	= 0.55 +0.60 2 = 0.29cm ) (0.29) (2. m: mechion = 0	1+0-55 = 0.580 56) =0.676 cm GSF Acad Mian Imre 0321-947-	3. emy an Tufail
Mean  1 =  V =  Masks  1 - Leav  2 - Zeso  3 · Leng  4 · Niem	Diameter = D  D/2 = 0.58/  The Stitution of Count = 2  esser, Zeso Count + Mean	= 0.55 +0.60 2 = 0.29cm ) (0.29) (2. m: mechion = 0	1+0-55 = 0.580 56) =0.676 cm GSF Acad Mian Imre 0321-947-	emy an Tufail

	ser = Nill	Mia	Academy <sup>b</sup> n imran Tu	JFail
Zero Ce	sucction = Nill	032	1-9477421	
No of	Main Scale	Citalian Scale Reading	C-BXI-C	D=A+C
obs.	Reading (A)	(B)	(mm)	(mm)
1	`5	40	0-40	5.40
2	6	41	0.41	6.41
3	5	40	0-40	5-40.
	essen+ Zeso co seadings of an thickness -	thickness = C	D	
4. 14.	מלו זרונ ומחוואס		(4)	
4. Me			Distriction of the last of the	
4. Me	Top	al Marks:	12	

				Four R	e adings	,
0	Distance	Time t	Oken	Average	25	t2
ops. 110.ot	(\$)	ts (S)	ξ <sub>2</sub>	time to tite	(cum)	(Sec)
1	120	3.0	3.0	3.0	240	9
2	140	3-6	3.6	3.6	280	13
3	160 .	4-1	4.1	4-1	320	17
4	180	4.6	4.6	4-6	360	21-2
5	200	5-0	5.0	5	400	25
3- A 4- In	awwing li othig gray ndung Sloy	sh = 3 be/Acce	brotion	1 -3		_
	To	talM	asks:	12		
						-

	011		hree Readings
10.0¢	Intal Position	Posi Donof Blockmark	Height ,
065.	(hi)	(hs)	com)
_1	5	85	80
2	4	85	81
3	5	84	79
Meo	m height =	h = 80+81+79	= 80cm ·
	D	2 (	GSF Academy
Time &	es 10 vibso	tion.	Mian Imran Tufai 0321-9477421
i- 16:16	Sec	ii- 16:08 sec	
		16-16+16-08 + 16-0	
		3	
Time	mid T	Lo/10 = 16.09/10	= 1-6 sec.
	2h/T2	그는 5대 : 이 사이스 등 그리고 있는 이번 시간 시간 시간 없다.	4 = 1.6/4 = 0.4 Se
	(1.6)2	was A f	- 2(80) = 1000 cm5
O 100	0/ - 4	-L 0 -	46-2
9 5 100	0/100 = 10ms	Prepared B	10m5 <sup>2</sup>
> 40 xx	120	M Your	
IAKY KQ	distribution	G Govt. BHS.	Chaburji Gardens, Lahor
1 - Mea	uwing distano	e = (2)	Chaburji Gardens, Lahor
		Meantime = 4	
	wing #me		_
4. Calc	72 1	g with unit	
		's Foundation A	cademy
		larks: 12	

	of the Pan = 20/	100 N = 0		au rya		
140. of	Weight of Block(w)	Weight Placed on	R= w1+w1	in	fs:	x · fs
0bs -	(N)	(N)	(4)	Pom(wu)	(4)	R
1	55/200 N =	509m =	0.55+0.5	35 gm2	0.140.35. 0.45 N	0.45 1.05
	0.55N	0.54	1-05N	0.35N		0-43
2	0:55N	0.224	1-14	40gm=	0.5N	0.4
3	0:55N	0.61	1.67	409m=	0.5N	0.4
	e of Coeffic	1.1		SAMI VI	111-11-	4
	e of Coeffic is brown.	1.1		GSF Ace Mian In	i <mark>demy</mark> iran Tu	
wood	is from	0.2 to 0		GSF Ace	i <mark>demy</mark> iran Tu	
wood. Maska	is from	o·2 to o	V <sub>6</sub> .	Mian In 0321-94	i <mark>demy</mark> iran Tu	
Wood Maska - Per	is from.	0.2 to 0  sion:  Le Obsessio	tions = (	Mian-In 0321-94	i <mark>demy</mark> iran Tu	
Wood Maska - Per	is from .  S distribute  Cormance  aswing	0.2 to 0  sion: 20 Obsession 4 • Obsession	Prepared B	Mian In 0321-94	idemy 17an Tu 77421	
Wood Maska - Per	is from .  S distribute  Cormance  aswing	0.2 to 0  sion:  Le Obsessio	Prepared B	Mian In 0321-94	idemy 17an Tu 77421	

Mass of Pan = m1 = 10gm = 10/1000 Kg = 0.01 Kg    No. of   Weight Placed in   Limiting Friction :   Obs.   Pan m29   (N) :   1   0.147   0.245   2   0.137   0.235   3   0.127   0.225    Cherage = 0.245 + 0.235 + 0.225 = 0.235 N.   3   Prepared By:   Masks distribution:   M. Yousaf Sohail     SST (Sch)	11 71	1.8ms-2	isee feadings
No. of Weight Placed in Limiting Friction:  No. of Weight Placed in Limiting Friction:  No. of Weight Placed in Might Placed in Might Placed in Might Placed in No. 245  2 0.137 0.235  3 0.127 0.225  Cheerage = 0.245 + 0.235 + 0.225 = 0.235 N.  3 Prepared By:  M. Yousaf Sohail SST (Sel)  1. Weight of Pan = 2 Govt. BHS, Chaburli Gardens, Late  2. Weight Placed in Pan = 3  3. Limiting friction = 3  4. Needs = 41			
No. of Weight Placed in Limiting Friction:  Obs. Pan mag mightness (N)  1 0.147 0.245  2 0.137 0.235  3 0.127 0.225  Charage = 0.245 + 0.235 + 0.225 = 0.235N.  3 Prepared By:  M. Yousaf Sohail  SST (Sch)  Govt. BHS, Chaburil Gardens, Lat  2. Weight Placed in Pan = 3  3. Limiting friction = 3  4. Neight = 4			
Dbs. Pan m29 (N)  1 0-147 0-245  2 0-137 0-235  3 0-127 0-225  Charage = 0-245+0-235+0-225 = 0-235N-  3 Prepared By:  M. Yousaf Sohail sst (Sch)  4. Weight of Pan = 2 Govt. BHS, Chaburli Gardens, Lat  2. Weight Placed in Pan = 3  3. Limiting friction = 3  4. Average = 41		· · · · · · · · · · · · · · · · · · ·	
1 0.147 0.245  2 0.137 0.235  3 0.127 0.225  Cherage = 0.245 + 0.235 + 0.225 = 0.235 N.  3 Prepared By:  M. Yousaf Schail  SST (Sch)  Govt. BHS, Chaburji Gardens, Late  2. Weight Placed in Pan = 3  3. Limiting friction = 3  4. Neerage = 4		Pan mag	
3 0.127 0.225  Cherage = 0.245+0.235+0.225 = 0.235N.  3 Prepared By:  M. Yousaf Schail  SST (Sch)  Govt. BHS, Chaburil Gardens, Lab  2. Weight Placed in Pan = 3  3. Limiting friction = 3  4. Average = 41	1		0-245
Average = 0.245+0.235+0.225 = 0.235N.  3 Prepared By:  M. Yousaf Sohail  SST (Sch)  Govt. BHS, Chaburji Gardens, Lah  2. Weight Placed in Pan = 3  3. Limiting friction = 3  4. Average = 4	2	0-137	0.235
Average = 0.245+0.235+0.225 = 0.235N.  3 Prepared By:  M. Yousaf Sohail  SST (Sch)  Govt. BHS, Chaburli Gardens, Lat  2. Weight Placed in Pan = 3  3. Limiting friction = 3  4. Average = 4	3	0.127	0.225
	2. Weight 3. Limitir 4. Averag		140.
		The state of the s	5-75

(ms) (ms)	time of	t2	to the	a=2h	9= (m1-10)
140		£2.	t=tHE	L.	
140			2_	(ms-2)	(m5 <sup>-2</sup> )
150	2.4	2.4	2.4	0.35	10-15
130	2.5	2.5	2.5	0:32	9.92
160	2.6	2.6	2.6	0.30	9.9
ving 'a	<u>,                                    </u>	D M	epared By: . Yousaf		ν
e value	e) (9	150	VI. BHS. C	naburji Gart	lens, Lahore.
To	tae n	Norks	: 12		
	tistaitu masses eing Tim eing 'a e value	tistainution:  masses m. &  sing Time of f  sing 'a' = 3  sing 'g' = 3  re value of 'g  Total N	distribution:  masses m. 4 m. =  sing Time of fall for  sing 'a' = 3  sing 'g' = 3  value of 'g' = 2  Total Masks	distribution:  masses m, & m, = 2  sing Time of fall for m; = (  prepared By:  sing 'a' = 3  ST (Sci)  e value of 'g' = 2	masses m, & m, = 2  sing Time of fall for m; = 2  ring 'a, = 3  M. Yousaf Schail  sing 'g' = 3  SST (Sei)  Re value of 'g' = 2  Total Masks: 12

No. of	w,	w,	ωs	Po						ck ioc oment	Anti- clockwise mombul	Diff.
obs	-11			A				OB O		AOK	MIXOL WIXOC	7,-7,
1	5	(N) 2	(1)	70	20		20	30	40	100	100 ( <u>mim)</u>	0
2	5	2	1	7.	20			7100.0	40	100	(00	0
3	5	2	1	70	a.	lo	೨ಂ	30	40	loo	100	0
	= 5K	v	24.54									
	nus o					<u>-</u>	<u>ත</u>					
- Sun	enokr	g We	ight	O Er	Balo	mui	ng	<b>= (3</b> )	)			

Knoven	weight -	W2 - 500	1 sule=0=50cm	x 10 = 5 N	
UnKnow	<u>m Weigt</u>	1-= W1=	150gm = 750/100	00 X10 = 7.5	N·
No of	Positi	ion of	Distance of	(m), from	Unknown
0bs	ω, (A)	ω <sub>2</sub> (B)	(o)	(p)	WEWSXP
	(om)	(cm)	(cun)	(cun)	(N)
1	30	80	20	30	7.5
2	30	80	20	30	7.5
3-Jusp	nt of Kr	nown an wen ey un	Gravity =0 d Unkmowen knowen weigh ce =0	200	S.
5- Find	ing unk	moven	Neight · = (	Court PHS	: f Sohail Chaburji Garden
		btal	Marks: 1	.2	
			- <del> </del>	-15	

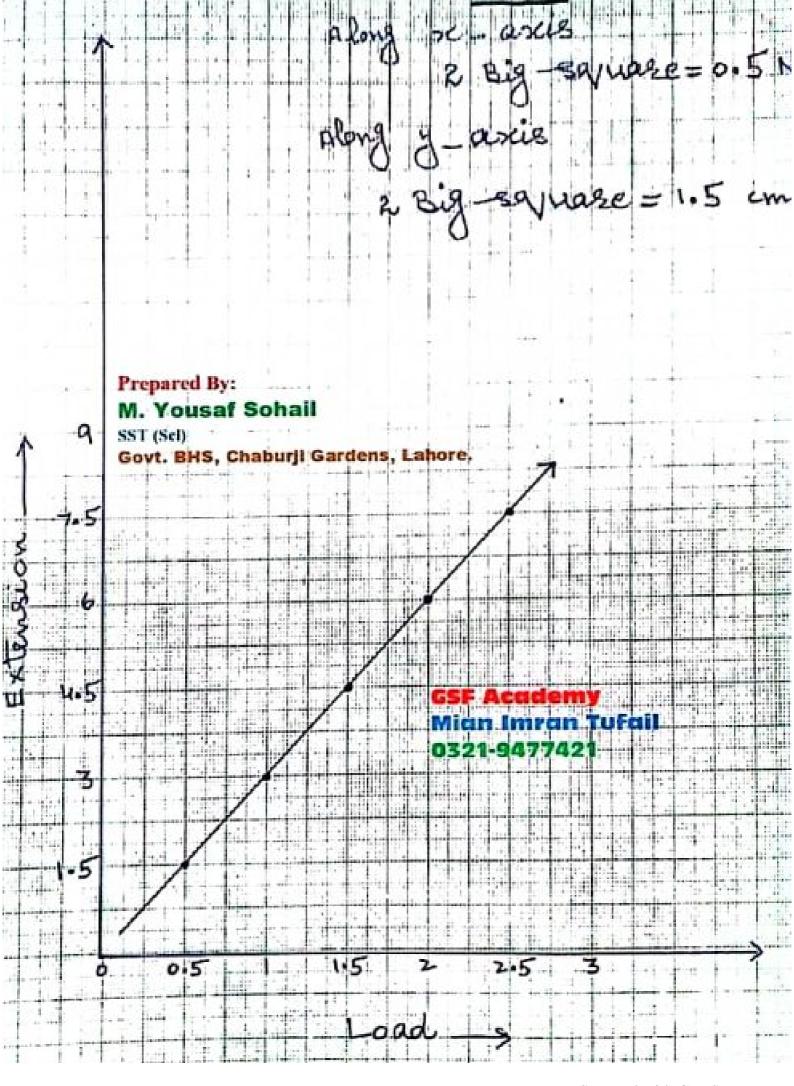
Zeso Zeso Diame	unt of Ver Error = 1 Correction ter of bot 5 of bob	vill. = Nill = D • 2.	n6cu	w.	- 1	SF Ad Mian J 321-9	4774	n_Tuf	iail—
No-of	Lengthof	Total bright ofpendich	Tim m 2	nefor		no Poid M=E/	T2	皇	9%}l T²
0PP-	noek /	X= X+k	ti	t.	-F14PP	(504)	Ser,		-2
	R1 (cun)	(cm)	(62)	(5et)	(Sec)			cms	cuns
1	98.97	100	40	40	40	2	4	25	985-96
2	8897	90	38	38	38	1.9	3.61	2493	983-20
3	78.97	80	36	36	36	1-8	3.24	24-6	97373
Max 1- Me 2- Mi 3- Tir 4- Tir	value of easing di easing di easing a ne for 20 ne Period lcul atir	g = 980.0 conster E lengths vib·Erm d = 2	3 16/10 - (2 10m	ius Dine	= Q = Q	Prepare M. You SST (Sci) Govt. Bi	d-By. usaf S	Sohail	Sardens

_Losst_teu	7.0		campes	= 0.0 cm	Three Read			
ZOSO ESSE	**-	Viee	-	-	The second secon	emy ran Tufail		
Zero loss	etton	4	4400000		0321-947			
First bot		Sec	and Bo	<u></u>	Third Bob			
Di= 1-18cm		100000000000000000000000000000000000000	1.5 cm		D3= 2	em		
			= 0·75c	m	83 = 10			
l= l+K,	=l+K, l-l2+K2				l= l3+ R3			
2=49-41+	0.69	1:	49-25+	0.75	2 = 4	1+1		
l= 50cm		l	= 50cm			o cm.		
Noof		oof	Time	for 20	oscillation	Time Posioc		
obs-		pan)	(4)	(Ser)	E: 61+61	T= E/20		
١		30	28	28	28	1.4		
2		50	28	28	28	1.4		
3		70	28	28	28	1.4		
	Ave	age t	ime Pesi	od = 1-4-	+1.4+1.4 =	1-43ec.		
	14114000	0 -			3 Prepared By: M. Yousaf !			
Mask	s dis	Bibut	ion:		SST (Sell)	aburji Gardens, Lahon		
1- Diame			35	ach hal	· - (3)			
11000			17	ich bol				
3-Time								
4. Time	Decimal	/77 (	F. A	ru wir	8			
1- 11/18	TENLO	//	4 HVOLO	90 =	9			
		1	al- A A	A 1	Fin			
			JUL I	Marks:	12			

Kein C	set = Nill essection = Ni			GSF A	Rendings cademy Imran Tufai
	<u>tecof bob =</u> s of bob =				9477421
	of Pendulu				ocm.
No-of	Amplitude	Time	for 200	Kinghion Er Er FEL	Time Pario
0p2-	(on)	(Sec)	(sec)	(46)	(Sec)
1	10	28	28	- 28	1.4
2	15	28	28	28	1.4
3	مد	28	28	28	1-4
1- Dia	es distributions  muter & Rom  russing lenge  ne for 20 vib  ne for 20 vib	dius o	endulum	. (2) n . (0)	Sohali haburji Gardens, Lahor
	To	tal 1	Marks	: 12	

Kein C	set = Nill essection = Ni			GSF A	Rendings cademy Imran Tufai
	<u>tecof bob =</u> s of bob =				9477421
	of Pendulu				ocm.
No-of	Amplitude	Time	for 200	Kinghion Er Er FEL	Time Pario
0p2-	(on)	(Sec)	(sec)	(46)	(Sec)
1	10	28	28	- 28	1.4
2	15	28	28	28	1.4
3	مد	28	28	28	1-4
1- Dia	es distributions  muter & Rom  russing lenge  ne for 20 vib  ne for 20 vib	dius o	endulum	. (2) n . (0)	Sohali haburji Gardens, Lahor
	To	tal 1	Marks	: 12	

				= 0 cm		
No-0 F	Total mass	Load	Position	of .	Mean	Extension
ops.	inhanger	Femg		Unloading	P=R+Pa	X=P-Po
,,,,	(gm)	( <del>V)                                    </del>	(cal)	Pa. (cm)	(cum)	(cm)
1.	So	Se Nº 0.5	1.5	1.5	1.5	1.5
a	100	1.0	3.0	3.0	3.0	3∙o
3	الاه	1.5	4.5	4.5	4.5	4.5
4	200	2.0	6.0	6.0	6.0	6.0
5	250	2.5	75.	7.5	7:5	7:5
- Appo	distribution of the state of th	ng = 2	Prepare M. You SSI (Sci)	ısaf Sol	ail	15, Lahere.
	Total M		7	GSF A	lcader	ny
					-Imran 94774:	-Tufail 21



Room tempes	aluxe = 28°C	ovice thom water by GSF Academy Mian Imran Tufail 0321-9477421
Mans el object in	ais - m: 329	= 32/1000 ×9 = 0.032 g
weight of object	in all = W1 = Y	ทเฐ
0		3 21cg y. 10 m/s2
		32N·
		10g-20/1000 kg = 0.02 kg.
weight of object	m water = Wz	= m=g
		0.02 x10 Kg m/s2
		=0·2N
Decrease in we	ight = W1-W2 =	0-32-0-2 = 0-12N
Density of v	vater =1000 K	gm²
Donoity of object	= Density of W	WI-WZ
	= looo x o·3	$32 = 2667  \text{Kgm}^{-3}$
	0-1	2 Prepared By: U
Marks distrik	ubion:	SST (Sci) Govt. BHS, Chaburji Gardens, L.
1- Weight of ob	ject in Air :	<u>-</u> @
2- Weight of ob	ert in water.	-@
1- Weight of ob 2- Weight of ob 3- Decrease in	neight = 0	GSF Academy Mian-Imran-Tufe
4- Finding down	Hofobject =	0321-9477421
To	otal Marks:	12
		ion Academy

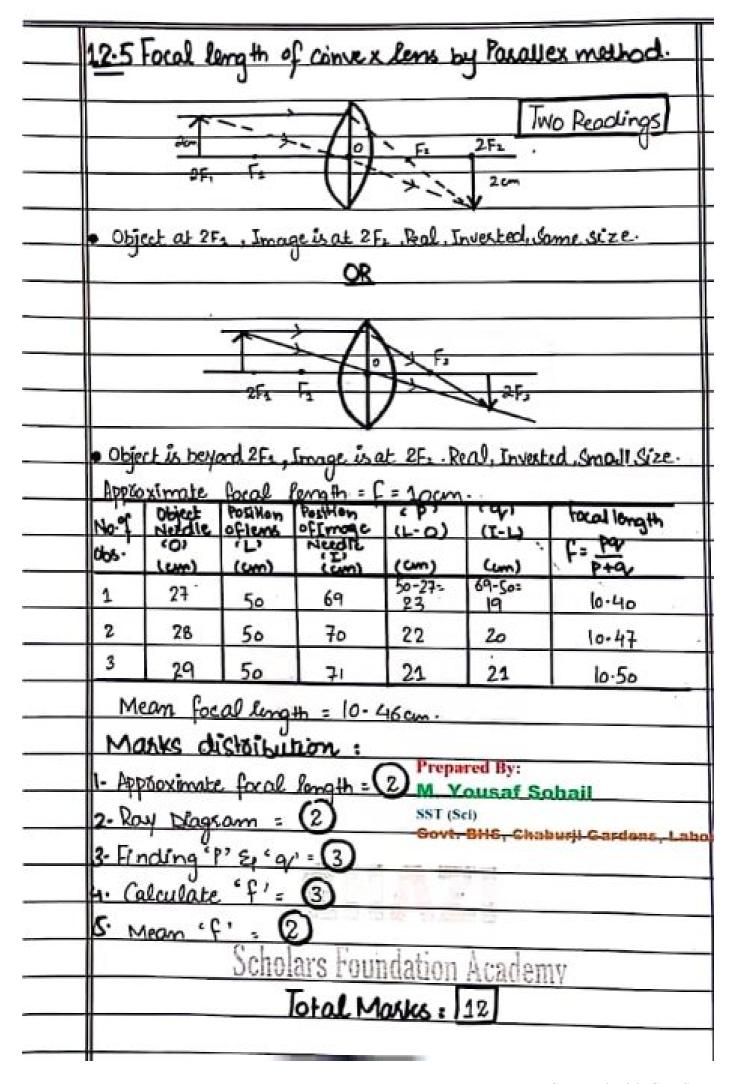
			Three Rico	lings
Room	+emperatu	uc = 30°C	-59m.Mia	Academ
Mass	of empty s	ysinge = m	1 = 5 gm. 032	1-947742
No.of	Volume of	Massof	Massof	Dowsitu
0.	liquid	with equid	m=m>-mı	m/v
	(cm3=m1)	(8m)	(gm)	(90m3)
1	5	10	10-5=5	5/5 = 1
2	4	9	9-5=4	4/4 =
3	3	8	8-5 = 3	3/3 =
2-yolu 3-Ma	one of syning of signic	id = © c with lique d = ©	Govt. BHS, Chabi	ırji Gardens,
	d density		6	
S- Fin	sage density	With unit =	<b>2</b>	

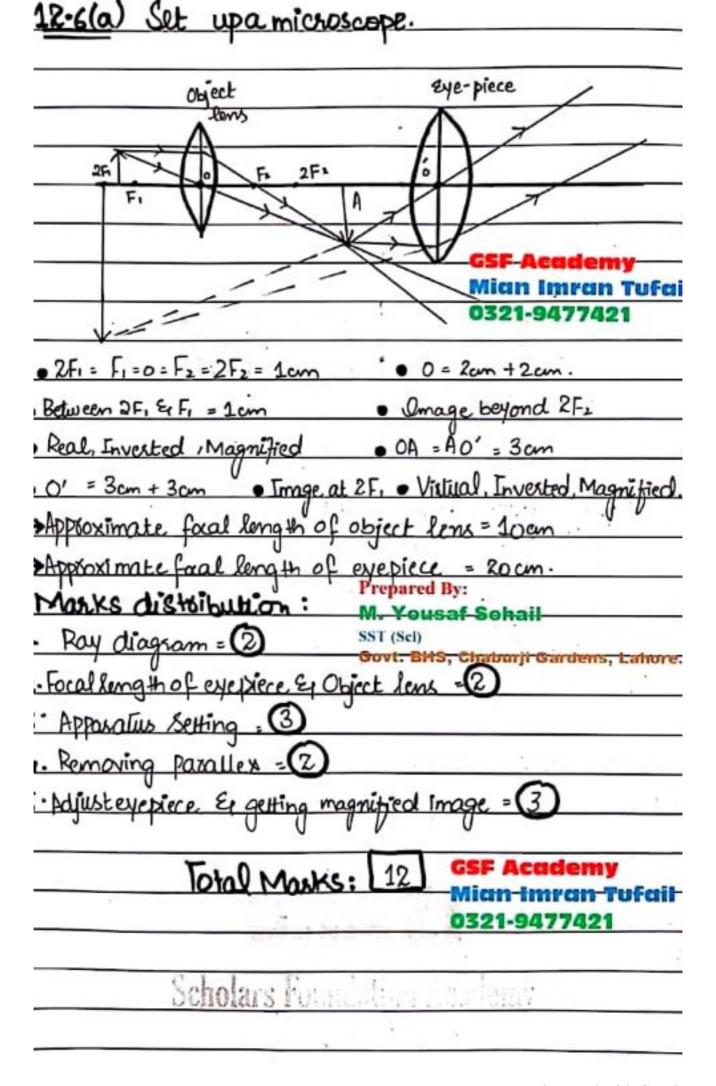
	1		. N	. Tw	o readings
		1		Mian-	tademy Imran Tufa 1477421
mLi)	mLs	_	100		
0P2.	Li	sinci	۷٨	Sinla	n= sinci
1	30°	0.5	20°	0-34	1-47
2	40	0.64	25°	0-42	1-52
3	50	0.77	30"	0.5	1.54
			Ν	1ean refracts	ue =1·47+1·52+1 s 3
		-124		rdex of alar	s 3
10xks	distrib	ution:		- 4	
	distribu dary =		1	10	4.53 = 1.59

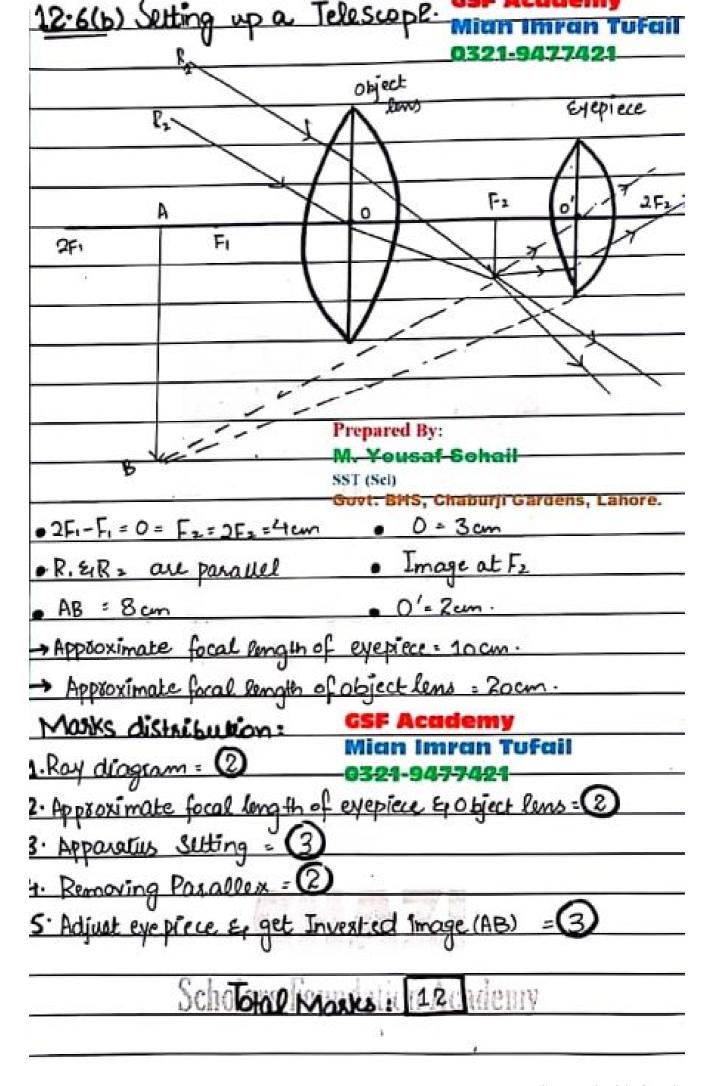
	h1>h2 ate focal length		readings
No. of	Distance blw needle and misses	Distance blw needle and water surface	Refractive Index n=h1
	(cm)	/h2 (cm)	hz
1	30	23	1.30
2	31	24	1.29
3	32	24	1.33
Mian In 0321-94	ıran Tufail	= 3.92 : 3	= 1-31.
	distribution:	Prepared By: M. Yousaf Sol	hail
	nate focal lungth = 100 parallex = 100	SST (Sci) Govt. BHS. Chabe	urji Gardens, Lah
3. Removin	gPaxaller after addi	ing water = (2)	
5. Finds,	gn = 3	57 600 1000 10	

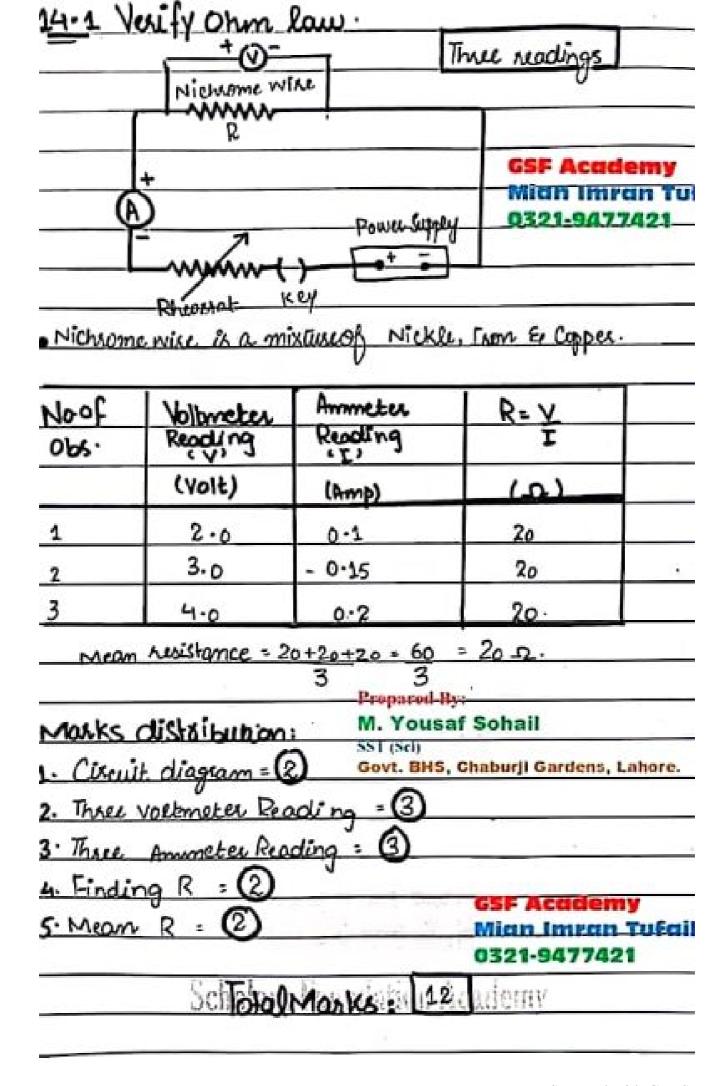
2.¢ ≈ 40	<u></u>	of glass using semi-
20 ≈40	ш	Two readings
	*	
		GSF-Academy Mian Imran Tufa
		0321-9477421
	1 4	· · · · · · · · · · · · · · · · · · ·
	1 /	
	$\overline{}$	1
		/
	<del>- + +</del>	
Noof	Critical	
ops.	Angle(c)	NA 11-1112
1	40°	Mean = 40+42 2
2.	42"	= 92. = 41°
~	12	= 82 = 4 <u>1</u> °
Mosle di		epared By: . Yousaf Sohail
	<b>~</b> 88	T (Sci)
Apparatus		ovt. BHS, Chaburji Gardens, Lahore
	ce and geometry = (	
Finding	1 207 17 201	1 THE ST.
· Mean G	itical angle = 2	Zin (16 - 24 Zin)
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12.4 Pam o	f ray of light u	sing phism & mea	NIL.
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meis	mLD	Two readings	
		<del></del>	
7:	$\wedge$		
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	17 700	Mian In	nran Tu
	0	0321-94	77421
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No. of	Angle of Incidence	Angle of	
Obs.		Deviation	
	Li	- LD	
1	60°.	40°	
2	70°	30'	
3	8o°	20°09 25°	
		GSF Academ	
Marks d	listaibution:	Mian Imran	
· Boundary	of prism = 2	0321-9477421	
1	ays with anows = (3	3	
3. Completion	'a	Prepared By: M. Yousaf Sohail	
4. Measure	:	SST (Sci) Govt. BHS. Chaburji Garde	one Labor
		GOVE DAG. CHADUNI GAIL	ans. Lanore
	Total Mask	s: 12	
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	Scholars Founda	dien Atademy	









		<b>⊕</b> √		Three Read	ings
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No.of	High Recidence	Deflection	Resistance		Gallonom
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/	Prepared-By:
85 (900)	M. Yousaf Sohail
Mosks distribution:	Govt. BHS, Chaburji Gardens, Laho
. Setting of bar magnet =	2
Boundary of bar magnet	- <b>②</b>
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	ysuman.	The state of the s	rt. BHS, Chaburji Gardens, Lahore.
	M	ble =6	
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